Averin Pavel Email: pavelaverin112@yandex.ru

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EDUCATION

Saint Petersburg State University

Bachelor of Software Engineering; GPA: 4.83/5.0

Saint Petersburg, Russia Sep 2022 – Present

EXPERIENCE

Scalo

Wrocław, Poland (Remote)

C#/ASP.NET Developer

2022 - 2024

• Web Application Development: Developed and maintained enterprise web applications using ASP.NET Core and C#.

Technologies: ASP.NET Core, Entity Framework, SQL Server, Azure.

- **API Integration**: Implemented RESTful APIs and integrated with third-party services. *Technologies*: Web API, JSON, OAuth, Swagger.
- Database Optimization: Improved query performance and database schema design for high-traffic applications. Technologies: SQL Server, Entity Framework Core, LINQ.

HwProj2 (Open Source)

Remote

Contributor 2024 - Present

• University Database Integration: Integrated the university's student database into HwProj2, enabling automated student sign-ups.

Technologies: ASP.NET Core, LDAP, C#, Active Directory.

Pull Requests: #470, #575, #583 (all merged)

Projects

- miniPython: Interpreter for a Python subset written in OCaml, featuring lexical scoping and first-class functions. GitHub: github.com/Salvatore112/miniPython
- BasedML: Compiler from MiniML (OCaml subset) to LLVM IR, with optimizations for tail recursion and pattern matching.

GitHub: github.com/Salvatore112/comp24/BasedML

• Bitmanip Research Script: Automated testing framework for researching compiler optimization of bit manipulation instructions across different architectures.

Technologies: Shell scripting, C, RISC-V architecture.

GitHub: github.com/Salvatore112/bitmanip-script

• **gem5 Processor Statistics Collector**: Python script for collecting and analyzing detailed CPU pipeline statistics from gem5 simulations.

Features: Tracks instruction progression through pipeline stages, identifies performance bottlenecks.

Technologies: Python, gem5 simulator, dataclasses.

GitHub: github.com/Salvatore112/pfuzz/gem5_statistics

TECHNICAL SKILLS

- Languages: Python, JavaScript/TypeScript, SQL, C#, OCaml, Go
- Frameworks & Tools: React, ASP.NET Core, LLVM, Git, Docker, gem5
- Concepts: APIs, Database Design, Compiler Construction, Automation, Computer Architecture